ECLIPSE

2006 AVN Line Brochure

AVN®
AUDIO VISUAL NAVIGATION

FUJITSU TEN

In a class all its own.

The full-featured AVN7000 installs easily for a sophisticated look and does not require any hideaway units for operation. With a sleek, stylish design, the AVN7000 enhances any car interior.

More versatile operation with dual drives.

The AVN6600 incorporates two DVD players mechanisms that eliminate the bother of switching discs. That means navigation can be ongoing at the same time as entertainment so that a single AVN6600 fulfills all requirements.

In a class all by itself, the latest AVN product that does it all in a stylish and compact one-DIN configuration.

AVN7000

HDD Navigation System with 7˝ Wide TFT Display and DVD/MS Multi-Source Receiver

ESN WMA MP3 DVD VIDEO DOLBY DIGITAL dts MEMORY STICK MAGICGATE HD Radio READY SIRIUS READY

20GB 1.8˝ HDD | 7˝ wide display | Touch control | Ultima Engine | Dual zone operation | MOSFET 50W × 4 | 5.1 ch. SOUND (option) | E-iSERV connectivity (option) | FM/AM | Advanced 24-bit ΔΣ DAC

7-band PEQ | Time alignment | Crossover | Listening Position Selector | SIRIUS Satellite Radio-ready | HD Radio-ready | TV Tuner-ready | CD Changer-ready | Rear Monitor-ready | Rear View Camera-ready

C D | CD-R/RW | MP3 | WMA | DVD-Video | DVD-R/RW* | DVD+R/RW*

High capacity 30GB HDD accommodates navigation and a 3,000-song Music Juke feature for music lovers.

AVN5495

ESN E5 6.5˝ Wide TFT Touch-Panel Display CD/DVD/MS Multi-Source Receiver with HDD Navigation

5V PRE-OUT SRS Circle Surround II ESN MP3 DVD VIDEO DOLBY DIGITAL MEMORY STICK MAGICGATE POWERED BY gracenote cddb

30GB HDD | 6.5˝ wide display | Touch control | Dual zone operation | 50W × 4 | 3,000 track Music Juke | CS II | FM/AM | Advanced 24-bit ΔΣ DAC | 9-band GEQ

Listening Position Selector | CD Changer-ready | Rear Monitor-ready | Rear View Camera-ready

C D | CD-R/RW | MP3 | DVD-Video | DVD-R/RW* | DVD+R/RW*

Flexible expansion possibilities make the ideal AVN model.

AVN6600

DVD Navigation System with 6.5˝ Wide TFT Display and Dual-DVD Multi-Source Receiver

Made for iPod

5V PRE-OUT SRS Circle Surround II ESN WMA MP3 DVD VIDEO DOLBY DIGITAL HD Radio READY SIRIUS READY

DVD/DVD deck | 6.5˝ wide display | Touch control | Dual play operation | Street Map | 50W × 4 | CS II | FM/AM | Advanced 24-bit ΔΣ DAC | 7-band PEQ

Crossover | Listening Position Selector | Ready for iPod® | SIRIUS Satellite Radio-ready | HD Radio-ready | TV Tuner-ready | CD Changer-ready | Rear Monitor-ready | Rear View Camera-ready

C D | CD-R/RW | MP3 | WMA | DVD-Video | DVD-R/RW* | DVD+R/RW*

Full-featured value AVN model makes its debut.

AVN5500

DVD Navigation System with 6.5˝ Wide TFT Display and DVD Multi-Source Receiver

5V PRE-OUT ESN MP3 DVD VIDEO/ROM DOLBY DIGITAL HD Radio READY SIRIUS READY

DVD/CD deck | 6.5˝ wide display | Touch control | Street Map | 50W × 4 | FM/AM | 9-band GEQ | Listening Position Selector | SIRIUS Satellite Radio-ready | HD Radio-ready

CD Changer-ready | Rear Monitor-ready | Rear View Camera-ready

C D | CD-R/RW | MP3 | DVD-Video | DVD-R/RW* | DVD+R/RW*

*Please refer to Note and Precautions.

Searching

Offering the most convenient ways to find your destination.

Freeway search

Simplifies highway travel.

Just input the name of a freeway and the entrance/exit you want.

Coordinates search

Searches by latitude and longitude.

Define search area

Conveniently focuses on a general region for more efficient searching.

All searching starts with selecting the general area the destination is in.

Quick Access Points

5 buttons can be preset to any desired destination for instant recall.

Home search

This always guides the car home, no matter where it is.

Once a home address is registered, it is easy to return from anywhere.

Address search

An address is all that is needed.

Input a street name and number will initiate a search.

POI Name

Convenient presets for general inquiries save time.

For a particular type of location such as a mall, restaurant or other, AVN brings up listings. Touch one and see more details.

POI Category*1

Making it simple to find locations.

Shows all the closest-to-get-to POIs from the car's current location.

Map search

No more wasted time looking for a map.

Another easy method is to directly access a map of the search area and zoom in or out as desired.

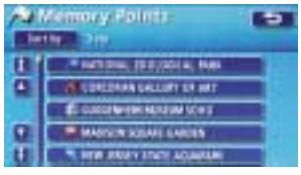
City search*2

A speed search that can be activated by city or nearby vicinity.

Offers a route to the input city's central area. Up to 5 favorite cities can be conveniently grouped together. A 20 mile vicinity of the city can also be shown.

Memory Points

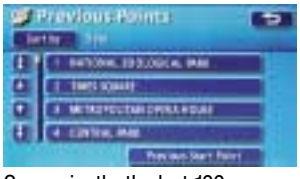
Presets for instant accessing a location.



100 useful locations are preset for quickly scrolling through and selecting. Favorite locations can have sound tags assigned even with directivity.

Previous Points

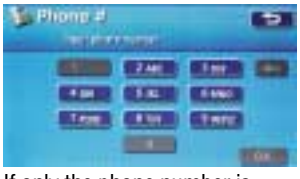
Where the car has been.



Conveniently, the last 100 locations can be instantly displayed for selecting.

Phone Number*1

Alternately, a telephone number will result in a search.



If only the phone number is known, the address corresponding to the telephone number will be shown.

*1: AVN7000, AVN5495 only *2: AVN7000, AVN6600, AVN5500 only

Routing

Always a useful selection of routes for the user to choose from.

Route preference

Preset travel method preferences such as expressways and toll roads are factored into the routes the user can choose from.

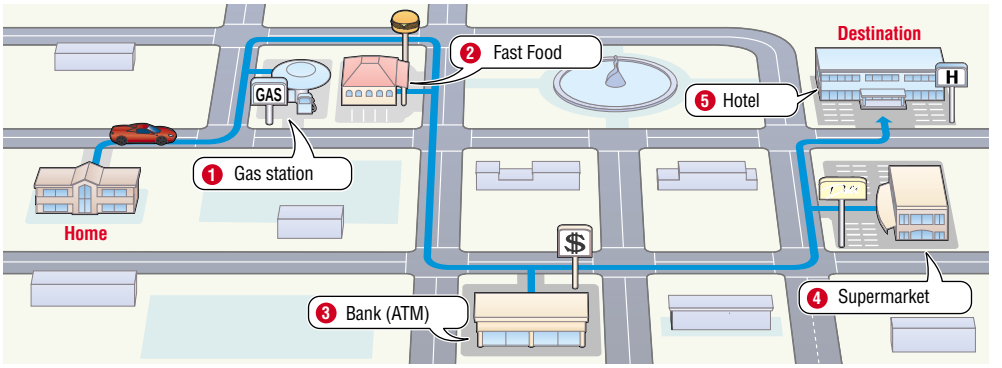
3 routes

Instantly sets 3. For any destination, a choice of Quick 1, Quick 2 and Short routes to suit personal preferences adds flexibility.

Enroute stopping points

Choose when and where to take breaks.

Before the final destination, any 5 locations can be programmed into the route such as a supermarket, gas station, and ATM.



Detours

Program locations prone to problems.

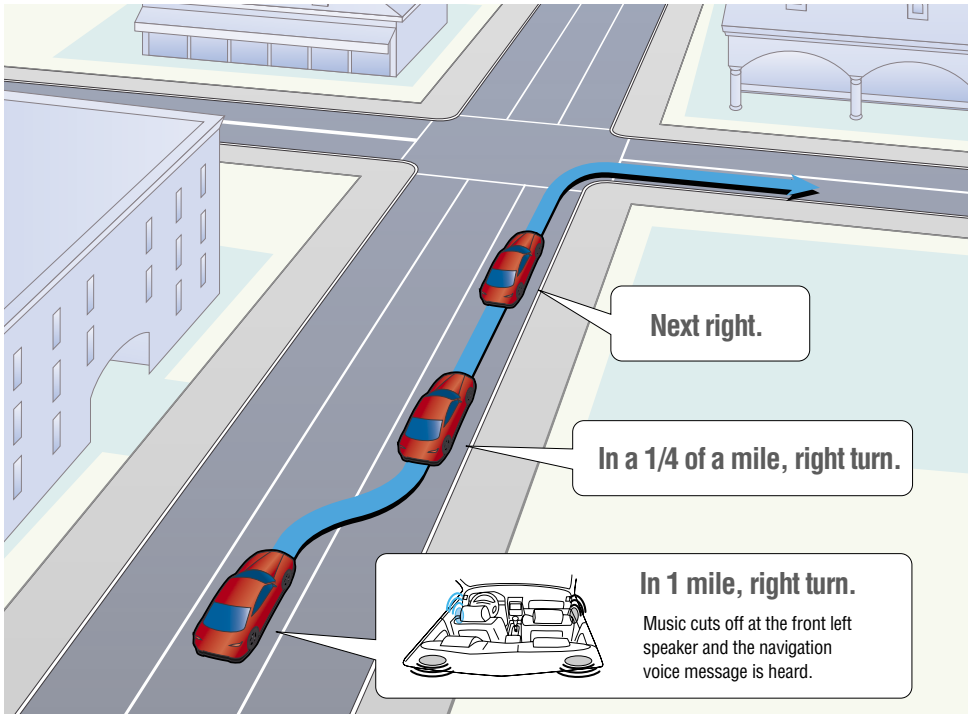
Now it is easy to avoid up to 10 chronically congested and problem areas. Simply select an onscreen area, drag to resize it up or down as desired and the best detours are presented.

Route preview

Any selected route can be conveniently previewed in its entirety to get familiarized with it.

Assistance

Comprehensive help features make driving enjoyable.


Next right.
In a 1/4 of a mile, right turn.
In 1 mile, right turn.
Music cuts off at the front left speaker and the navigation voice message is heard.

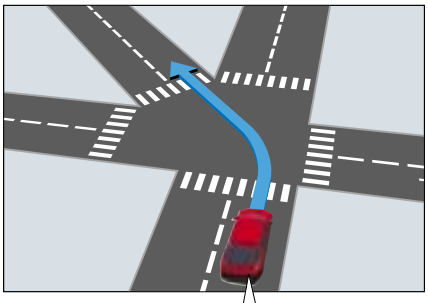
Voice announcements and guidance

No more missed turns.

For stress-free driving, the AVN advises upcoming turns and will continue to warn as the turn approaches. Other guidance for curves and driving lanes will also be announced.

Intersection zooming

Display zooms up just when needed.

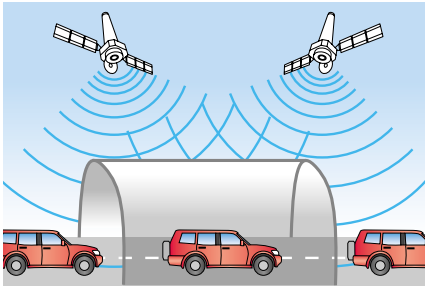


Display automatically splits as an intersection is approached.

When approaching an intersection where a turn is required, the display automatically splits into two screens to show a more close-up view with details such as landmarks.

Map and positional updating

Constant tracking maintains accurate position.

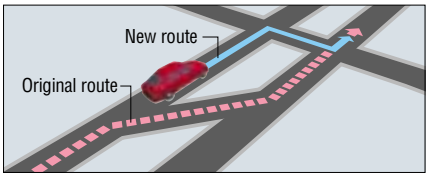


The AVN constantly tracks the car even where it cannot receive satellite signals. A gyro sensor and auto speed pulse help correlate the car's travel with the onscreen map so that car's position is always accurate.

Auto rerouting

Instant response ensures no wasted time.

Wrong turns and missed streets are no longer a problem because the AVN instantly reroutes to put the user right back on track.



Freeway assistance

Entrance displays.

Guidance is provided when approaching a freeway entrance with the entrance name also displayed.

Freeway interchanges*

Untangling the most complex interchanges is easy with the 3D views and correct lane views the AVN displays.

Exit displays*

No more worries about missing the right exit because it is shown in a 3D view along with name and other useful information.

* AVN7000 only

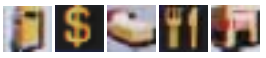
Special display features

Making navigation easier than ever.

POI displays

Gas stations, restaurants, ATMs and other useful locations show up onscreen as POI displays, each category distinguishable by a unique icon. Press an icon and more information about that location is displayed.

POI genres simultaneously onscreen: 5



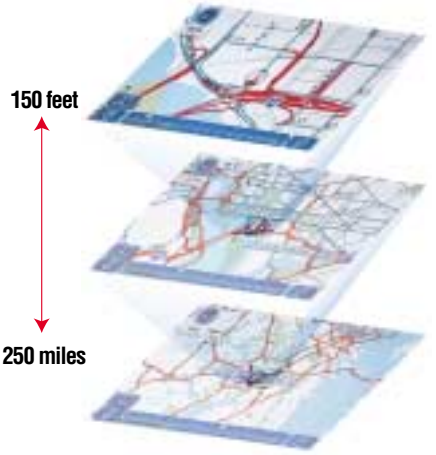
Information regarding a POI also appears on the display.

Driving distance and arrival time displays

Useful information regarding distance to the destination as well as the estimated time of arrival can be seen.

Versatile zooming

Map scale can be quickly controlled by shifting magnification values. Seamless zooming is broader, covering 150 feet to 250 miles for maximum flexibility.



Split screen function

This convenient function can be activated as desired to combine zoom in and out displays, maps of different scales and other combinations of various modes as desired.

Smooth multi-directional scrolling

Just a light fingertip touch is all that is needed on the touch control screen for the map to scroll by smoothly and accurately following the fingertip.

Time zones

When traveling across time zones, the AVN7000 automatically adjusts the time correctly.

Photo: AVN7000 screenshot

Mapping coverage

AVN6600 and AVN5500 navigation databases do not include Hawaii.

Photo: AVN7000 screenshot

Brand new display mode for easier urban navigation.

Street Map

A new addition to navigation assistance, this mode is accessed through the button. The display shows a detailed view to improve recognition of streets, buildings and other identifying points.

(AVN6600, AVN5500 only)

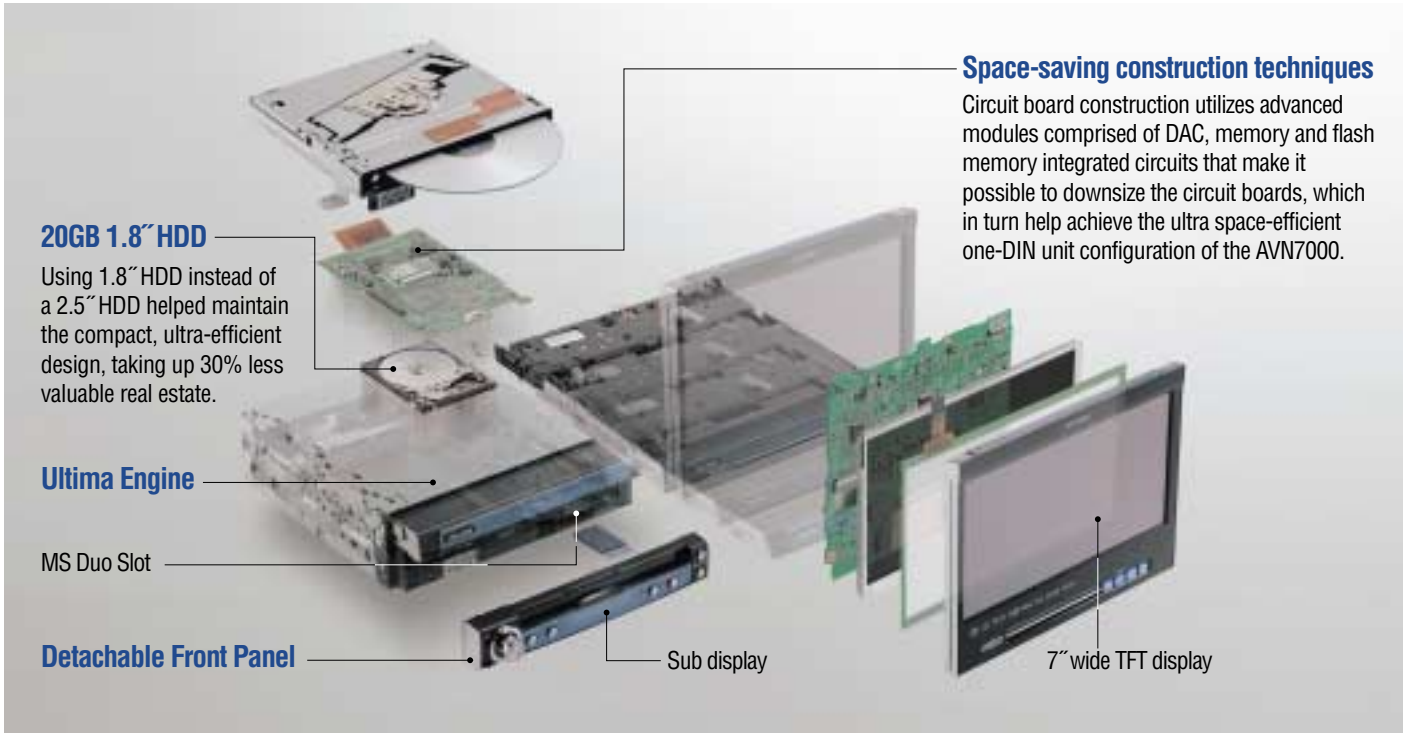
Note: Apart from the street map images, all display images on p6 - p9 are from the AVN7000. Most function explanations are based on the AVN7000.

AVN7000 Technology

Inspiring new approaches for creative new solutions.

AVN7000 technology inside

ECLIPSE's inventive engineering made it possible to incorporate full-featured AVN technology with navigation and entertainment into a one-DIN enclosure.


Space-saving construction techniques
Circuit board construction utilizes advanced modules comprised of DAC, memory and flash memory integrated circuits that make it possible to downsize the circuit boards, which in turn help achieve the ultra space-efficient one-DIN unit configuration of the AVN7000.
20GB 1.8˝ HDD
Using 1.8˝ HDD instead of a 2.5˝ HDD helped maintain the compact, ultra-efficient design, taking up 30% less valuable real estate.
Ultima Engine
MS Duo Slot
Detachable Front Panel
Sub display
7˝ wide TFT display

Proximity layout

Important circuit components such as the DAC and MOSFET devices are closely positioned next to the output terminals for the most effective signal transmission and to cancel any potential noise pickup. This adds up to delivering better audio performance.

DAC ➡ MOSFETs ➡ OUTPUT

The culminating effect of all these efforts allows the AVN7000 to be free from noise and provide a performance that impresses.

Design accents

Chrome and silver style highlights

The stylish silver strip accents the pushbuttons on the side while the control knob and other buttons are finished in chrome for an elegant touch, contrasting with the piano-black finish of the unit.

Brilliant mirror coating

Adding a style-conscious design accent is a special mirror finish that allows the unit's precision-cut edges to attractively refract light in brilliant colors.

Dual color illumination

To suit user preferences and car interiors, the switches offer a choice of color illumination.

BLUE RED

Ultima Engine

This computing engine combines navigation and graphics processing integrated chips in one monolithic configuration for accelerated data processing.

Over 32,000 map colors

Screen translucency
On-screen information now "floats" above a map display so it's easier to see and less distracting.

Antialiasing

The Ultima Navigation Engine allows many more colors to be simultaneously used without "jaggies" and greater resolution.

DCU105 Audio Video Matrix

ECLIPSE designed the powerful Audio Video Matrix unit that can be used with ECLIPSE products. Because it is a dedicated unit, the DCU105 elevates the performance any source it is connected to, for audio and video. It offers system control and response that would ordinarily require technicians and test equipment to achieve. It also offers many advanced system expansion choices for audio as well as video.

DCU105

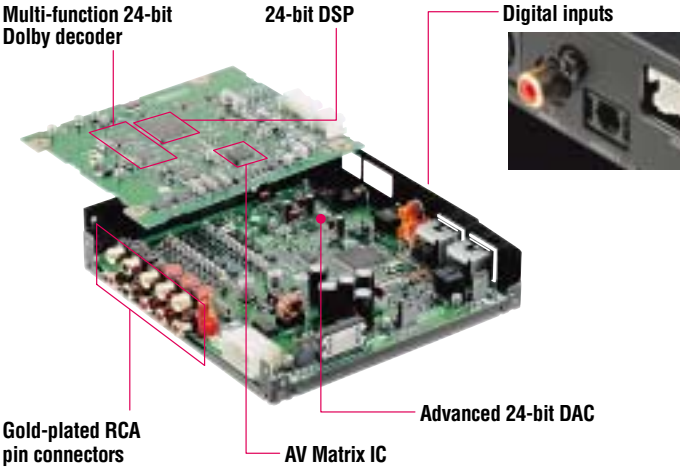
5.1ch. Decoder/AV Matrix Unit

Dolby Digital 5.1 ch.	Crossover Pro
dts 5.1 ch.	Parametric EQ Pro
Dolby Pro Logic II	AV Matrix Selector
E-iSERV connectivity	5V preamp output
Time Alignment Pro	MOSFET 50W x 4

Dimensions (W × H × D): 6-15/16˝ × 1-7/16˝ × 6-5/16, 175 × 36.5 × 160mm
Connects to AVN7000 and AVX5000.

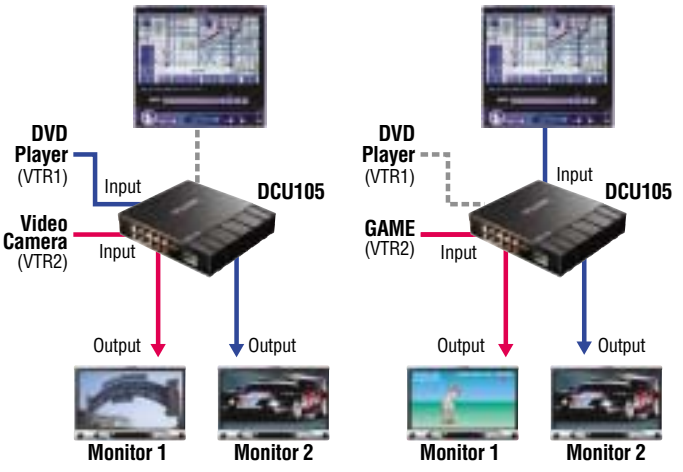
Complete processing power enhances audio and video performance as well as offering more playback options.

Connecting the DCU105 to the AVN7000 expands its scope of operation and system control with surround sound decoding options as well as comprehensive audio processing. Premium components ensure no-compromise performance.



Increased versatility offers more enjoyment for all passengers.

The DCU105 enables dual operation zones so that navigation can be onscreen in front while one rear passenger enjoys a DVD and another views playback from an external video source. An optional TV Tuner can also be connected.

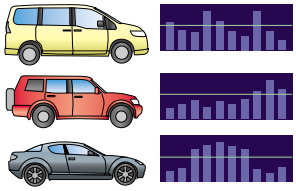


AVN7000 + DCU105 — Precision tonal contouring for accurate sound.

Parametric EQ Pro

The professional EQ method for tuning a system's frequency response because of its absolute versatility and precision control. It smoothes out system response, eliminating troublesome frequency peaks and dips.

Test microphone picks up the system's frequency response.



Each vehicle type has its own acoustic environment. System frequency response is precisely adjusted manually for an ideal flat frequency response.

To suit preferences and music genres, up to five sets of user-configured PEQ settings can be preset and stored in memory for instant recall.

AVN7000

Normal Mode
Perform easy audio customization using the AVN7000 by itself.

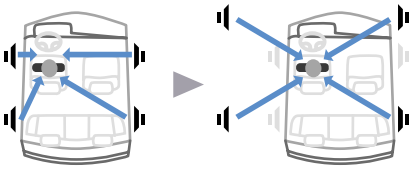
7-band Parametric EQ

Simpler parametric equalization function can adjust the "Q," i.e. bandwidth, of each of the 7 center frequencies from wide to narrow in 3 steps.

AVN7000 + DCU105 — Optimizing for the best audio performance.

Time Alignment Pro

If sound from all the speakers arrives at the ears simultaneously, it is more natural sounding. Time delay can be adjusted to achieve identical arrival times.



Sound from speakers in different locations arrive at the listener's ears at all different times.Speakers are electronically processed with varying time delays to ensure all the sound is heard at the same time no matter how the speakers are positioned.

Front 1-way example

Fullrange speakers can be time-aligned automatically with the AUTO setting. One single push is all that is needed for the whole process.

Front 3-way example

Complex to perform manually, optimal delay settings can be adjusted automatically for the various speakers in the system for true time alignment. For experienced users, more tweaking is possible in the manual mode.

AVN7000

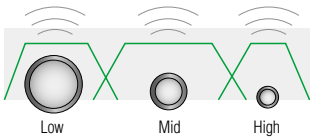
Time Alignment

A simpler time alignment performed by selecting the car type and speaker positions, then adjusting each speaker level. Delay parameters are then adjusted for a time-aligned response.

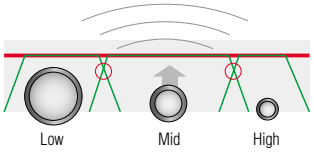
AVN7000 + DCU105 — Wide-bandwidth, perfectly balanced sound.

Crossover Pro

Multiple speakers are necessary for wide bandwidth sound since each speaker covers a limited frequency range. A speaker must smoothly 'crossover' to the next speaker, making the overall system sound as if it was coming from a single source.



Discontinuities between speaker units can be heard.



Integrating the sound from different speakers into an organic, whole sound that's more natural and lifelike.

Adjusting a crossover point's frequency, rolloff using "slopes" from bandpass to 6/12/18/24dB/octave and level settings.

AVN7000

Crossover

The crossover point for the subwoofer response can be switched in/out of phase to blend better with the rest of the speaker system.

Enables optimal listening.

Listening Position Selector

This function compensates for any seating position, optimizing system response for that position as if it was in the perfect sweet spot for listening as in a home audio system.

For adjusting the overall system-wide balance.

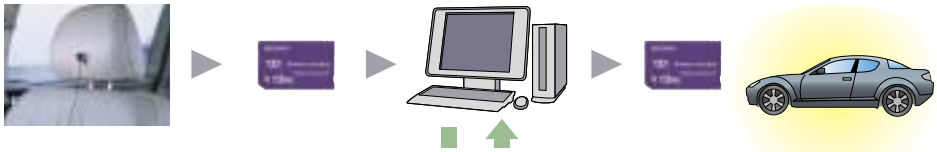
Fader and Balance

Easy directional controls and a visual indicator make it easy to set system-wide balance in any direction to suit user preferences.

E-iSERV (AVN7000 + DCU105)

This is where E-iSERV starts!
www.eclipse-web.com

ECLIPSE allows users to access the E-iSERV server online and optimize the system response for a specific vehicle and allow precise audio customization over parameters.



Pink noise is fed into the system and the system's test microphone measures the response. The response is downloaded to a Memory Stick Duo.

E-iSERV is accessed with a PC and the data on the MS is input into E-iSERV.

When the MS Duo is again inserted into the AVN7000, the new settings result in an ideal system response .

E-iSERV

Parametric EQ

E-iSERV examines all available data and automatically creates an optimum parametric EQ setting which is again downloaded onto the MS Duo.

Crossover

Time Alignment

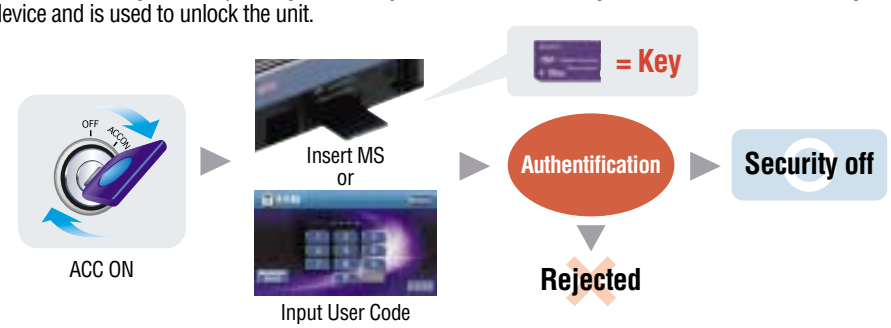
E-iSERV makes it possible to achieve that same high level of audio customization for Time Alignment and Crossover settings. Together, the E-iSERV-optimized settings allow a user to enjoy a customized overall response.

Other features

Twin Security System

ESN

With the engine switched off, ESN can be activated to deter AVN7000 tampering and flashes as a deterrent warning ESN is operating. A Memory Stick Duo can be designated to function as a locking device and is used to unlock the unit.



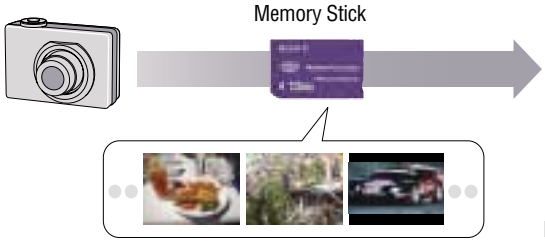
Detachable front panel

The front panel detaches and is compact enough to be very portable, allowing users another level of security and deterrence.

Other customization features

Pic-Clip

This function allows changing the default image as well as selecting custom images.



Direct image data reading from DCIM folder.

Creating a versatile configuration that offers multiple entertainment options.

Dual DVD Decks

In a dual DVD-configured AVN product, navigation is assigned to the lower DVD deck while the upper deck is reserved for entertainment — CD or DVD video.

Touch Control Displays

Touch control provides easy and intuitive operation and fingertip pushes have tactile/sound confirmation, making it simpler to make audio adjustments such as EQ as well as navigation operations.

Upgraded graphics IC

AVN units are continually being refined to improve navigation performance and features. Current models are equipped with a dedicated graphics-processing chip that accelerates map drawing and provides smoother, high-resolution graphics. From the car's moving position on route maps to more detail in navigational data, graphics have been significantly improved across the entire AVN range.

Comprehensive rear seat entertainment enhances passenger enjoyment.

Dual Play

Being equipped with two DVD players allows navigation and entertainment to be ongoing at the same time without the bother of switching discs. The AVN6600 also makes it possible to enjoy two independent entertainment zones. For example, with navigation operating, the front passenger and driver can enjoy broadcast music and rear seat passengers can watch DVD-video (using headphones for audio).

Front

AVN6600

When the car is in motion, front occupants can enjoy AM/FM. Additional enjoyment is possible with options such as:
SIRIUS, HD Radio, CD-Changer and iPod.

Rear

MRE-700

Rear passengers can enjoy DVD-Video, DVD+R/RW, CD, WMA, MP3 and TV.

iPod® connection

Allows enjoying favorite music from an iPod.
Also recharges when connected.

Photo: AVN6600

Made for iPod

iPC-106
Interface Adapter for iPod®

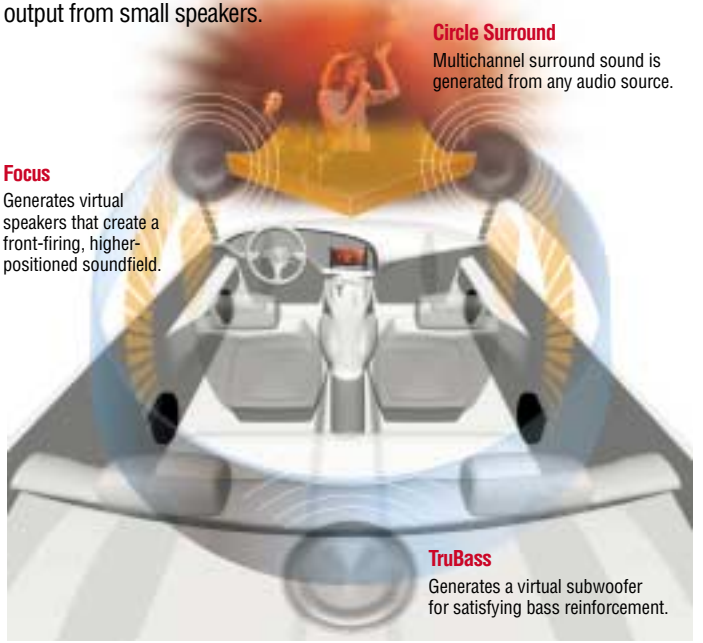
Dimensions (W × H × D)
4-11/16˝ × 1-5/16˝ × 3-9/16˝
120 × 32 × 90mm

Note: Only for iPods with dock connection.
Please refer to iPod Control Function chart on p18 for AVN models.

Circle Surround II

SRS Circle Surround II

Audio enhancement technology featuring **Circle Surround** to upmix any program material audio signals for full surround effects on 4-speaker systems, **Focus** that raises the soundfield and positions it in front of the listeners and **TruBass** for low frequencies to be perceived as being output from small speakers.



Circle Surround
Multichannel surround sound is generated from any audio source.

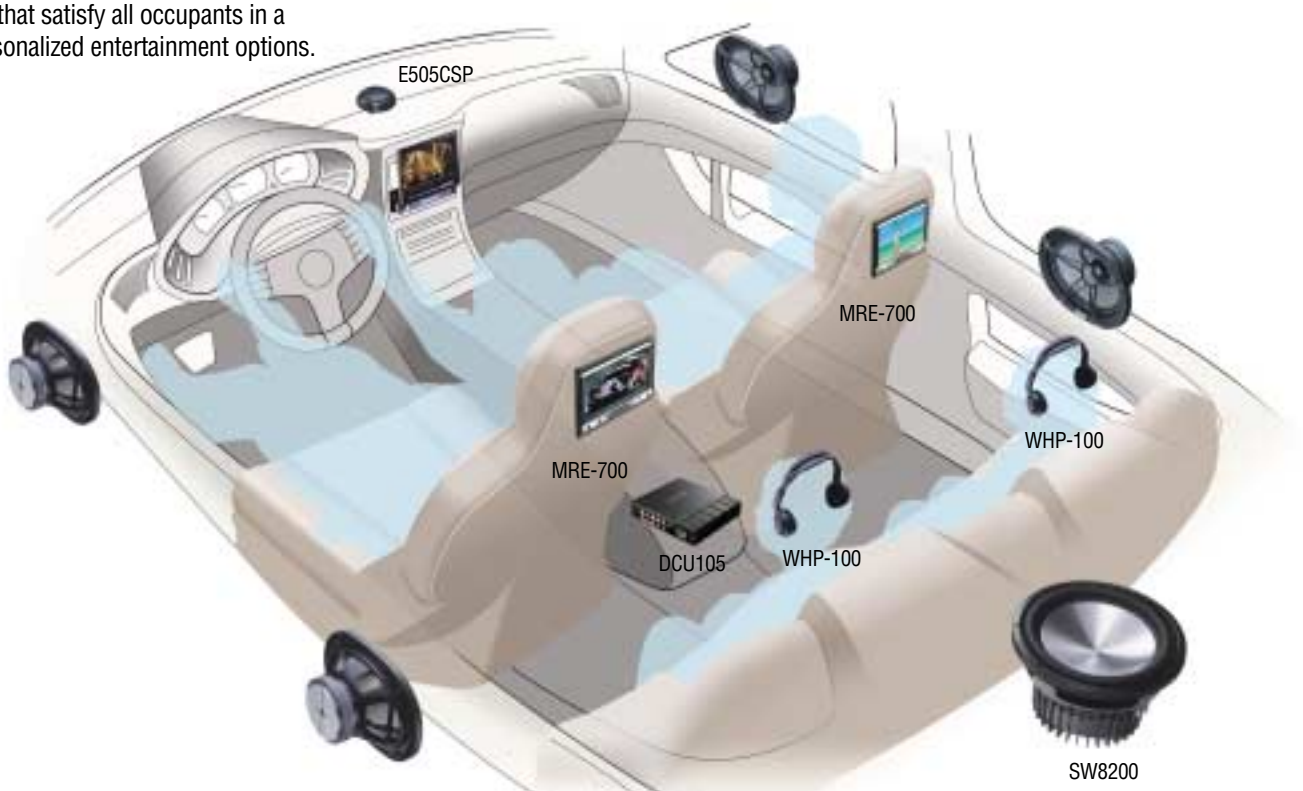
Focus
Generates virtual speakers that create a front-firing, higher-positioned soundfield.

TruBass
Generates a virtual subwoofer for satisfying bass reinforcement.

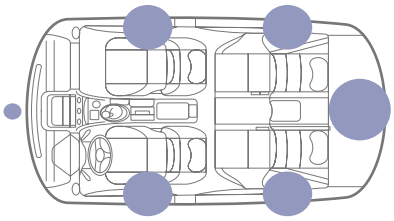
System setups

AVN7000 + DCU105

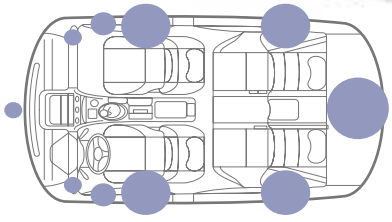
Adding a DCU105 to the AVN7000 instantly opens up a wealth of system expansion possibilities that satisfy all occupants in a car with personalized entertainment options.



Front 1-way



Front 3-way



Recommended options

SIRIUS Satellite Radio	SIR-ECL1
HD Radio	HDR105
TV Tuner	TVR105
CD Changer	CH3083
Rear view camera	BEC105

Expansion options

Photo: AVN6600

Made for iPod

iPC-106
Interface Adapter for iPod® NEW
Allows enjoying favorite music from an iPod. Also recharges when connected.

Dimensions (W × H × D) 4-11/16″ × 1-5/16″ × 3-9/16″
120 × 32 × 90mm

Note: Only for iPods with dock connection.
Please refer to iPod Control Function chart on p18 for other AVN models.

Dimensions (W × H × D):
6-3/4″ × 1-1/16″ × 4-9/16″
171.5 × 25.5 × 115.1mm

MRE-700 NEW
7″ Widescreen Monitor
Its slim and silver-colored enclosure adds the perfect touch of style to rear entertainment systems, featuring automatic screen dimming to suit ambient light, a built-in speaker and headphones jack. Dedicated WHP-100 wireless headphones can also be used. AV inputs are on front and back of unit.

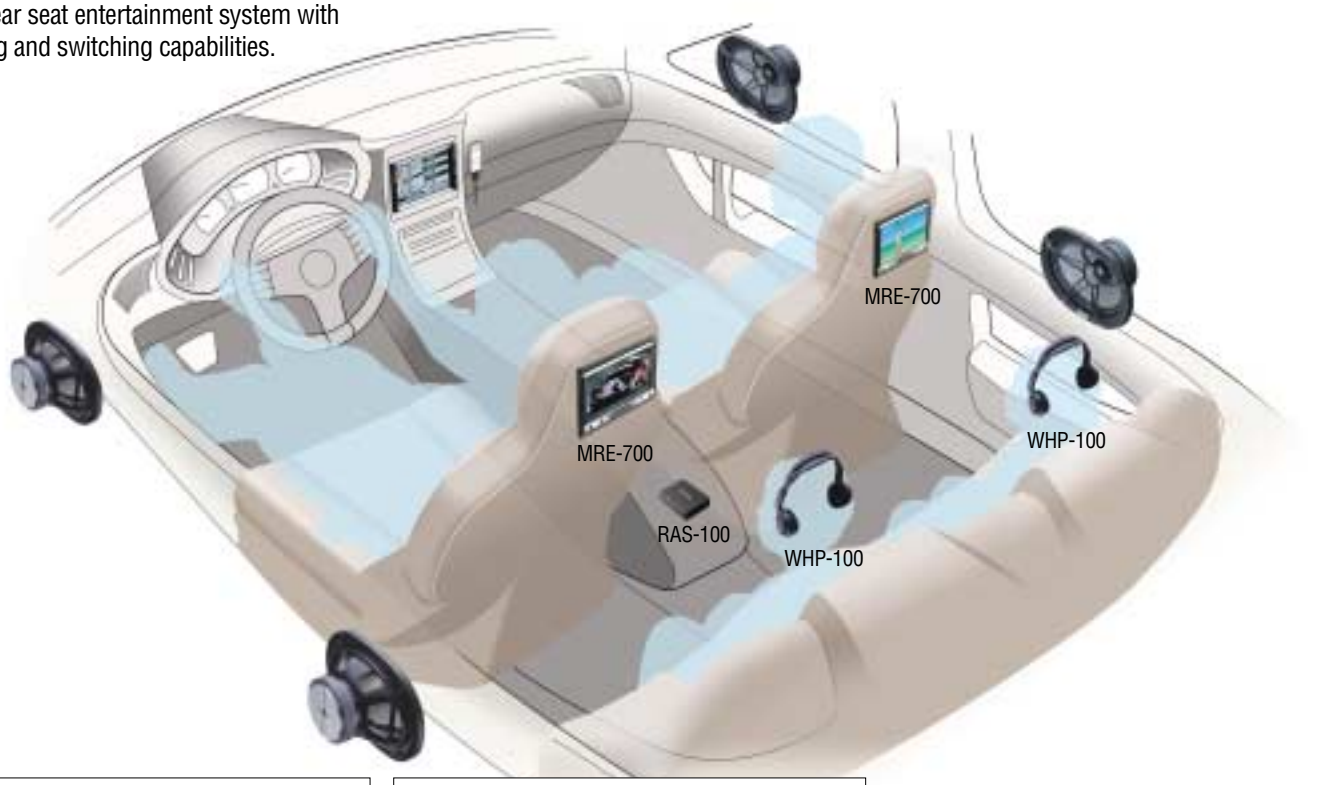
MRE-700W NEW
7″ Widescreen Monitor Package
Contains all the components and hardware that is required to create an ideal rear entertainment system.
Includes MRE-700 × 2, RAS-100 (AV Matrix), dedicated wireless remote control.

NEW
WHP-100
Wireless Headphones
These wireless headphones are ideal for rear entertainment when different program sources are simultaneously being played. Switchable between 2 frequencies.

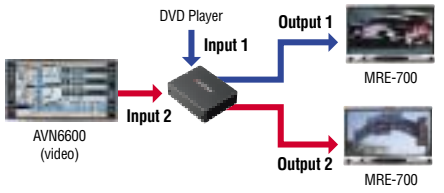
E505CSP NEW
Center Speaker with 20W Power Amplifier
A simple way to enjoy surround sound by adding a central active speaker.

AVN6600/AVN5495/AVN5500 + MRE-700W

For the above-listed AVN products, adding the RAS-100 AV Matrix enables putting together an ideal rear seat entertainment system with full routing and switching capabilities.

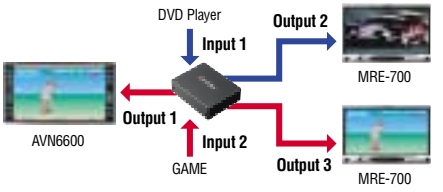


Program material signals routed from the AVN6600 to the RAS-100.



Program material from 2 sources seen on 2 monitors.

Routing program material signals from the RAS-100 through the AVN6600.



Program material from 2 sources seen on 3 monitors.

Recommended options

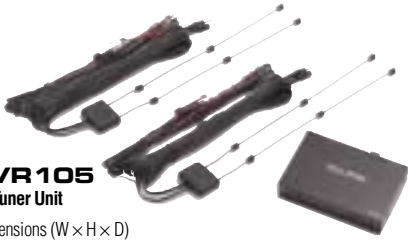
iPod®	iPC-106*
SIRIUS Satellite Radio	SIR-ECL1*
HD Radio	HDR105*
TV Tuner	TVR105*
CD Changer	CH3083
Rear view camera	BEC105

HD Radio®

HDR105
HD Radio Tuner Unit
Dimensions (W × H × D)
6-15/16″ × 1-7/16″ × 6-5/16″
175 × 36.5 × 160mm

SIRIUS SATELLITE RADIO

SIR-ECL1
ECLIPSE COMPATIBLE SIRIUS SATELLITE RADIO TUNER
Dimensions (W × H × D)
4-15/16″ × 1-7/16″ × 4-3/16″
125 × 35 × 105mm



TVR105
TV Tuner Unit
Dimensions (W × H × D)
5-15/16″ × 1-3/16″ × 4-3/16″
150 × 30 × 105.2mm

BEC105 NEW
Rear View Camera

Rear view camera-ready
The BEC105 optional rear camera can be connected to the AVN units to facilitate parking.

CH3083
8-Disc CD Changer with Magazine Unit

RMC105
Wireless Remote

MDV-06D
2006 Version Update Navi Disc

For: AVN5435 and AVN2454. Includes Street Map data. MDV-06D data compiled as of December 2004.

*For connection details of each unit, please see p18 – p19.

Features List

	AVN7000	AVN5495	AVN6600	AVN5500
Media				
HDD	1.8″ 20GB	30GB	—	—
DVD	●	●	●	●
CD	●	●	●	●
Memory Stick	●*1 (MS Duo only)	●	—	—
Navigation				
Navi Device				
HDD Navigation	●	●	—	—
DVD Navigation	—	—	●	●
Ultima Engine	●	—	—	—
Displaying				
Display	7″EGA	6.5″EGA	6.5″EGA	6.5″EGA
Split screen	●	●	●	●
Street name	●	●	●	●
Point-of-Interest (POI)	approx. 4,000,000 points	approx. 3,150,000 points	approx. 5,990,000 points	approx. 5,990,000 points
Street map	—	—	●	●
Operation				
Touch panel control	●	●	●	●
Searching				
Address search	●	●	●	●
POI Name	●	●	●	●
POI Category	●	●	—	—
Emergency search	Hospital/Police	Hospital/Police	Hospital/Police	Hospital/Police
Memory search	●	●	●	●
Previous search	●	●	●	●
Map search	●	●	●	●
Intersection search	●	●	●	●
Freeway search (ENTER/EXIT)	●	●	●	●
Coordinates search	●	●	●	●
Telephone number search	●	●	—	—
Home search	●	●	●	●
Quick access point search	●	●	●	●
Security				
ECLIPSE Security Network	●	●	●	●
Detachable front panel	●	—	—	—
Other				
Select User	●	●	●	●

*1: Memory Stick Duo is sold separately and compatible with 128MB or under.

iPC-106 functions

ECLIPSE models	AVN7000		AVN5495	AVN6600	AVN5500	
Mode	SIRIUS control	CDCH control	CDCH control	iPod full control	SIRIUS control	CDCH control
Track next/previous	●	●	●	●	●	●
Fast next/previous	—	—	—	●	—	—
Text display	●	—	—	●	●	—
Search mode	●*3	●*3	●*3	●*2	●*3	●*3
Browsing list	—	—	—	●	—	—
Repeat	●	●	●	●	●	●
All repeat	●	●	●	●	●	●
Random	●	●	●	●	●	●
Album random	—	—	—	●	—	—
Power supply/charge	●	●	●	●	●	●

*2: Playlist/Album/Artist/Genre/Song *3: Playlist/Album/Artist/Song

Specifications

	AVN7000	AVN5495	AVN6600	AVN5500
GENERAL				
Power output	50W × 4 (MAX)	50W × 4 (MAX)	50W × 4 (MAX)	50W × 4 (MAX)
Dimensions (W × H × D)	7″ × 2″ × 6-1/2″ (180 × 50 × 165mm)	7″ × 4″ × 6-1/2″ (180 × 100 × 165mm)	7″ × 4″ × 6-1/2″ (180 × 100 × 165mm)	7″ × 4″ × 6-1/2″ (180 × 100 × 165mm)
Weight	5.1lbs (2.3kg)	7.9lbs (3.6kg)	7.0lbs (3.2kg)	6.6lbs (3.0kg)
DISPLAY				
Display	7″ wide (16:9), low-glare panel	6.5″ wide (16:9), low-glare panel	6.5″ wide (16:9), low-glare panel	6.5″ wide (16:9), low-glare panel
Resolution	336,960 dots (480 × 234 × 3)	280,800 dots (400 × 234 × 3)	280,800 dots (400 × 234 × 3)	280,800 dots (400 × 234 × 3)
Screen aspect ratio	4 types	4 types	4 types	4 types
FM TUNER				
Frequency range	87.75 — 107.9MHz (200kHz step)	87.75 — 107.9MHz (200kHz step)	87.75 — 107.9MHz (200kHz step)	87.75 — 107.9MHz (200kHz step)
Usable sensitivity	19dBf (98.1MHz)	12dBf (98.1MHz)	13dBf (98.1MHz)	13dBf (98.1MHz)

AUDIO	AVN7000			AVN5495	AVN6600	AVN5500
	AVN7000 only	DCU105 connected				
		Front-1 way system	Front-3 way system			
DVD						
DVD-Video	●			●	●	●
DVD-R/RW, DVD+R/RW *4	●			●	●	●
Dolby Digital 5.1 ch.	—	●		—	—	—
dts 5.1 ch.	—	●		—	—	—
Dolby Pro Logic II	—	●		—	—	—
CD						
CD	●			●	●	●
CD-R/RW	●			●	●	●
MP3	●			●	●	●
WMA	●			—	●	—
MS						
ATRAC3	● (Magic Gate Memory Stick Duo)			●	—	—
Audio function						
MUSIC JUKE	—			● (3,000 track)	—	—
Circle Surround II	—			●	●	—
Time Alignment	Car type: 6 types, Speaker position: Tweeter Rear SP	Front (L/R), Rear (L/R), Center, Subwoofer	F-Hi (L/R), F-Mid (L/R), F-ML (L/R), R (L/R), Center, Subwoofer	—	—	—
Parametric EQ	7 bands	F/R/C: independent 5 bands, SW: 1 band		—	7 bands	—
Graphic EQ	—	—	—	9 bands	—	9 bands
Crossover	●	F (HPF)/R (HPF)/ C (HPF)/SW (LPF)	F-Hi (HPF), F-Mid (HPF/LPF), F-ML (HPF/LPF), R (HPF), SW (LPF)	—	●	—
Multi-Harmonizer	MP3/WMA/ATRAC3			MP3/ATRAC3	MP3/WMA	MP3
Listening Position selector	FR, FL, F, R, OFF			●	●	●
Non Fader Level/Phase control	●			●	●	●
Woofer output	●			●	●	●
E-iSERV Connectivity	—	● (Audio customize)		—	—	—
Audio device						
Amplifier	MOSFET 50W × 4			50W × 4	50W × 4	50W × 4
Advanced 24-Bit ΔΣ DAC	●			●	●	—
Pre Amp Output	F/R/NF, 2V	Front/Rear/Center/Subwoofer, 5V		F/R/NF, 5V	F/R/NF, 5V	F/R/NF, 5V
Video Output	●			●	●	●
Video Input	●			●	●	●
Digital Output (Coaxial)	●			—	—	—
Digital Input (Coaxial)	—	●		—	—	—
Digital Input (Optical)	—	●		—	—	—
ANALOGUE RADIO TUNER						
FM	FM1: 6, FM2: 6, FM3: 6			FM1: 6	FM1: 6, FM2: 6, FM3: 6	FM1: 6
AM	AM: 6			AM: 6	AM: 6	AM: 6
OPTIONAL						
Ready for iPod®	▲*5			▲*5	●	▲*5
HD Radio-ready	●			—	●	●
SIRIUS SATELLITE RADIO-ready	●			—	●	●
CD Changer-ready	2 (daisy chain)			2 (daisy chain)	2 (daisy chain)	2 (daisy chain)
Rear View Camera-ready	●			●	●	●
TV Tuner-ready	●			—	●	—
Rear Monitor output	1	2		1	1	1

*4: Please refer to Note and Precautions. *5: Please refer to iPod Control Function chart on p18.

	AVN7000	AVN5495	AVN6600	AVN5500
AM TUNER				
Frequency range	530 — 1.710kHz (10kHz step)	530 — 1.710kHz (10kHz step)	530 — 1.710kHz (10kHz step)	530 — 1.710kHz (10kHz step)
Usable sensitivity	22μV	22μV	22μV	22μV
CD SECTION				
Frequency response	20 — 20,000Hz ±3dB	20 — 20,000Hz ±3dB	20 — 20,000Hz ±1dB	20 — 20,000Hz ±1dB
Total harmonic distortion	0.04% (0dB 1kHz)	0.04% (0dB 1kHz)	0.02% (0dB 1kHz)	0.01% (0dB 1kHz)
MS SECTION				
Frequency response	20 — 20,000Hz ±3dB	20 — 20,000Hz ±3dB	—	—
Total harmonic distortion	0.04% (0dB 1kHz)	0.04% (0dB 1kHz)	—	—
EQUALIZER SECTION				
Equalizer	63Hz — 16kHz (25 points) ±10dB	63Hz — 12kHz (1/2oct.step) ±10dB	63Hz — 12kHz (25 points) ±10dB	63Hz — 12kHz (1/2oct.step) ±10dB
HDD SECTION				
Operating temperature range	–10 — 65°C	–10 — 65°C	—	—
Storage temperature range	–40 — 85°C	–40 — 85°C	—	—

Notes and Precautions

Product safety notice
- To ensure the safe operation of ECLIPSE products, please read the owner's manuals carefully prior to using.
- ECLIPSE is not responsible for any accident or damage due to improper installation, connections or products modified in any way.

Warning
- All products are intended for DC 12-Volt operation in negative grounded vehicles only. Never use them in 24-Volt vehicles such as heavy trucks or diesel cars with cold-region specification, aircraft or marine environments unless specifically rated to handle these conditions.
- Do not adjust controls while driving. To adjust the controls, stop the car in a safe location.

Caution
- Installation of products requires experience and knowledge. Ask your ECLIPSE retailer for proper installation.
- ECLIPSE cannot guarantee that every product it manufactures will be able to be installed in every vehicle model or make. To be sure, please consult your ECLIPSE retailer.
- In some cases due to installation-related considerations, additional connecting cables may need to be purchased for an ECLIPSE product.
- The rear view camera is a parking aid. It must be used only to supplement your vehicle's side view and rearview mirrors. It is not a substitute for mirrors and careful driving.
- Do not remove the HDD from the head unit. ECLIPSE is not responsible for any loss of data, damage or malfunction to the disk drive mechanism resulting from unauthorized removal or tampering with the HDD.
- Please be sure to follow instructions provided in the installation manual for correct procedures as incorrect installatiion may affect driving-related operation and/or airbag operation.
- Please make sure only the official parts supplied with the unit are used. Do not substitute other parts as it may affect operation or compromise unit build integrity.
- Optimal MP3 and WMA file reproduction quality depends greatly on the original encoding process. Depending on the original encoding, files may sometimes not play back properly.
- The ECLIPSE navigation system requires its dedicated database for optimal performance. Do not insert other database DVDs that may cause the unit to malfunction or not respond.

General
- Product design and specifications are subject to change without prior notice or obligation as ECLIPSE reserves the right to constantly seek to improve its products.
- Due to characteristics and properties of various photography and printing processes, the color(s) of the actual product may slightly differ from those shown on these pages.
- Some screen images shown are simulated.
- Some graphic examples of ECLIPSE Web services may be from pre-release software and could vary slightly from the final version.

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- "dts" and "dts Digital Out" is a trademark of Digital Theater System, Inc.
- HD Radio is a trademark of iBiquity Digital Corporation.
- SIRIUS SATELLITE RADIO is a trademark of SIRIUS Satellite Radio Inc.
- Memory Stick is a registered trademark of Sony Corp.
- Magic Gate is a registered trademark of Sony Corp.
- iPod® is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

Others
- Some recent audio discs may resemble conventional music CDs but are technically not Compact Discs (CD Red Book format) because of the copy protection technology employed. ECLIPSE cannot guarantee operation and performance if these discs are used.
- DVD-R/RW and DVD+R/RW playback is possible only for discs formatted for video mode.
- VR (Video Recording) mode-recorded discs and discs not finalized will not play in the unit.
- Some PC-authored discs may not play due to software application settings during authoring.
- DVD-R/RW, DVD+R/RW and CD-R/RW playback quality may be affected by disk surface condition and disc format initialization process.
- DVD-R/RW, DVD+R/RW, CD and CD-R/RW discs may not operate perfectly on unit due to disc imperfections.
- DVD-R/RW, DVD+R/RW, CD and CD-R/RW disc performance may suffer if a disc exhibits excessive wear, dirt and scratching
- ATRAC3 is an efficient compression codec for digital music files, allowing files to take up just 1/10 their uncompressed size without degrading audio quality.
- Playback of song data is only possible on Magic Gate-compatible memory stick devices.
- Memory Sticks up to 128MB can be used. Initialization must be executed with Windows 2000 or later.
- ECLIPSE is not responsible for any data loss on a Memory Stick or HDD due to unit failure or malfunction.
- Recorded using ATRAC3 compression, an effective compression codec with minimal negative effect on sound quality.
- Song storage can be less than the representative number of song files depending on each song's bit rate and sampling frequency.

Operation notes
- DVD-Video compatible units are only compatible with NTSC standards and Region-1 DVD-Video discs.
- DVD-Video is disabled when the vehicle is in motion. Inserting a DVD-Video will only allow the audio to be heard.
- The Global Positioning System or GPS was developed in the United States. It is a system that pinpoints a current position making use precisely of radio waves transmitted to earth from 3 or 4 GPS satellites.
- GPS data can sometimes be unavailable due to circumstances such as:
  - Interrupted GPS satellite radio waves because of geographical interference factors such as buildings, tunnels, elevated roads and similar conditions.
  - Unsatisfactory reception due to objects being on or in the near vicinity of the GPS antenna.
  - Interrupted transmission service may sometimes result from periodic maintenance or upgrades being performed by the US-based GPS tracking control system.
  - Transmission can be interrupted or degraded when a digital cellular operating on a 1.5GHz frequency rate is being used in the vicinity of the GPS-enabled unit.

AVN-specific
- AVN7000 map data compiled as of October 2004.
- AVN5495 map data compiled as of June 2004.
- AVN6600 map data compiled as of December 2004.
- AVN5500 map data compiled as of December 2004.
- Do not follow a navigation route if it could place you in an illegal, unsafe, or dangerous situation.
- Navigation controls cannot be operated in a moving vehicle.
- Please do keep in mind however that since emergency service providers sometimes change locations and services, a phone call should be made first to verify current availability before proceeding to the destination.

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1-800-233-2216 (Information)

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